

Special Issue

Surface Properties and Surface Characterization of Dental Materials

Message from the Guest Editor

A wide range of materials is used in dentistry, generally classified into four groups: metals, ceramics, polymers and composites. They have a broad range of application fields, from simple composite fillings to more complicated dental implants. Dentistry has responded well to the main challenges of developing and selecting biocompatible prosthetic materials that can withstand the adverse conditions of the oral environment (forexample, abrasion, pH, temperatures, high-magnitude masticatory forces and bacteria). The acceptance (biointegration) in the oral cavity and long term functionality mainly depend on the bulk and surface properties and the design and biocompatibility of these materials. Additionally, the technique applied and patient health awareness are also crucial factors. This Special Issue targets one of the most important characteristics of dental materials: the surface features and their characterization methods. Surface composition, morphology, roughness, hydrophilic/hydrophobic properties and surface science characterization methods are mainly presented.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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